

Title (en)
OIL FILTER HAVING GAS SEPARATOR

Publication
EP 0487203 A3 19930519 (EN)

Application
EP 91309371 A 19911011

Priority
JP 12074290 U 19901120

Abstract (en)
[origin: EP0487203A2] An oil filter is provided being of the type which comprises a housing opened at one end thereof, a cylindrical first separator unit disposed in the housing for removing solid contaminants from an oil introduced into the housing, and a second separator unit disposed within the first separator unit for removing gaseous contaminants from the oil that has passed through the first separator unit, the second separator unit including a cylindrical casing having at least one inlet passage, a funnel-shaped cyclone fitted in the casing to define a chamber for a vortical flow of the oil introduced therein to thereby separate gas-rich oil and a removal pipe extending into the chamber along an axial center thereof for discharging the gas-rich oil. The improvement resides in that the casing has a head portion defined by a circumferential wall having an increased thickness, and that the inlet comprises an inlet passage formed through the circumferential wall and inclined relative to a radial direction of the head portion to have a greater length than the thickness to the circumferential wall. The inclined inlet passage having significant length contributes to an enhancement of the vortical flow to be subsequently generated in the chamber.

IPC 1-7
B01D 35/00; **F01M 1/10**

IPC 8 full level
F01M 11/03 (2006.01); **B01D 27/10** (2006.01); **B01D 36/00** (2006.01); **F16N 39/06** (2006.01)

CPC (source: EP KR)
B01D 27/103 (2013.01 - EP); **B01D 36/001** (2013.01 - EP); **B01D 36/045** (2013.01 - EP); **F01M 11/00** (2013.01 - KR)

Citation (search report)

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DOCDB simple family (application)
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